## LISTING OF CLAIMS:

(Currently Amended) Biodegradable, <u>linear</u>, <del>thermoplastic</del>, phase separated multiblock copolymer, comprising:

segments of a <u>linear</u> soft biodegradable prepolymer (A) having a glass transition temperature  $(T_o)$  lower than 37°C; and

segments of a <u>linear</u> hard biodegradable prepolymer (B) having a melting point temperature  $(T_m)$  of 40- 100°C, the segments being linked by a multifunctional chain-extender, wherein said chain-extender is an <u>a difunctional</u>, aliphatic ehain-extender molecule, wherein the segments of the soft biodegradable prepolymer (A) and the segments of the hard biodegradable prepolymer (B) are randomly distributed in the copolymer.

## 2. (Cancelled)

- (Previously Presented) Copolymer according to claim 1, wherein prepolymer (A) comprises ester and/or carbonate groups.
- (Previously Presented) Copolymer according to claim 1, wherein a polyether is present as an additional prepolymer.
- (Previously Presented) Copolymer according to claim 1, wherein pre-polymer (A)
  comprises reaction products of ester forming monomers selected from diols, dicarboxylic acids and hydroxycarboxylic acids.

- (Previously Presented) Copolymer according to claim 1, wherein prepolymer (A) comprises reaction products of cyclic monomers and/or non-cyclic monomers.
- 7. (Previously Presented) Copolymer according to claim 6, wherein said cyclic monomers are selected from glycolide, lactide (L, D or L/D), ε-caprolactone, δ-valerolactone, trimethylene carbonate, tetramethylenecarbonate, 1, 5-dioxepane-2-one, 1, 4-dioxane-2-one (para-dioxanone) and/or cyclic anhydrides such as oxepane-2, 7-dione.
- 8. (Previously Presented) Copolymer according to claim 6, wherein said non-cyclic monomers are selected from succinic acid, glutaric acid, adipic acid, sebacic acid, lactic acid, glycolic acid, hydroxybutyric acid, ethylene glycol, diethyleneglycol, 1, 4-butanediol and/or 1, 6-hexanediol.
- (Previously Presented) Copolymer according to claim 4, wherein said polyether is selected from PEG (polyethylene glycol), PEG-PPG (polypropylene glycol), PTMG (polytetramethyleneether glycol) and combinations thereof.
- (Previously Presented) Copolymer, according to claim 1, wherein prepolymer (A) is prepared by a ring-opening polymerisation initiated by a diol or di-acid compound.
- (Previously Presented) Copolymer according to claim 9, wherein PEG is an initiator with a molecular weight of 150-4000.

- (Previously Presented) Copolymer according to claim 1, wherein prepolymer (B) is prepared by a ring-opening polymerisation initiated by a diol or di-acid compound.
- 13. (Previously Presented) Copolymer according to claim 1, wherein prepolymer (B) contains a crystallisable amount of ε-caprolactone, δ-valerolactone, para-dioxanone, polyhydroxyalkanoate, aliphatic polyanhydride.
- 14. (Original) Copolymer according to claim 13, wherein pre-polymer (B) is poly-ε-caprolactone.
- 15. (Previously Presented) Copolymer according to claim 14, wherein pre-polymer (B) has an average molecular weight (M<sub>0</sub>) of larger than 1000.
- 16. (Previously Presented) Copolymer according to claim 14 wherein the content of prepolymer (B) is 10-90 wt.%.
- (Previously Presented) Copolymer according to claim 1, having an intrinsic viscosity of at least 0.1 dl/g.
  - 18-26. (Cancelled)
  - 27. (Previously Presented) An implant comprising a copolymer according to claim 1.
  - 28-30. (Cancelled)

- 31. (Previously Presented) Copolymer according to claim 3, wherein the ester and/or carbonate groups are in combination with polyethers.
- (Previously Presented) Copolymer according to claim 9, wherein PEG is an initiator with a molecular weight of 150-2000.
- (Previously Presented) Copolymer according to claim 9, wherein PEG is an initiator with a molecular weight of 300-1000.
- 34. (Previously Presented) Copolymer according to claim 14, wherein pre-polymer (B) has and average molecular weight (M<sub>n</sub>) of larger than 2000.
- 35. (Previously Presented) Copolymer according to claim 14, wherein pre-polymer (B) has and average molecular weight (M<sub>n</sub>) of larger than 3000.
- 36. (Previously Presented) Copolymer according to claim 14 wherein the content of prepolymer (B) is 30-50 wt.%.
- (Previously Presented) Copolymer according to claim 1, having an intrinsic viscosity of between 1-4 dl/g.